

Septmber 13, 2004 F/PIC:RYI:FLF
2Q04-10.WPD

Dear Visitors to our Honolulu Laboratory Web Site:

This is our preliminary 2004 second quarter report for the Hawaii-based longline fishery. The results are derived from the logbook data and are based on **non-confidential** summaries which provide fleet-wide analyses of effort, catch, and catch-per-unit-effort (CPUE). A summary of logbook data for the second quarter 2004 is shown in Tables 1-7. Interactions with protected species in the second quarter 2004 are summarized in Table 8.

The figures present quarterly data summaries in line charts. Fishing effort is presented in Figures 1-3 while catch and targeted CPUE values for tuna, billfish, blue shark, and miscellaneous pelagic species are shown in Figures 4-23.

This report also includes historical annual effort and catch figures on the Hawaii-based longline fishery from 1991-2003 (Figures A1-A7).

I hope you find our longline logbook report site interesting, and I appreciate your visit.

Sincerely,

Samuel G. Pooley
Director

Enclosures

Pacific Islands Fisheries Science Center
Fishery Monitoring and Economics Program
Preliminary Longline Logbook Summary Report
April-June 2004

September 13, 2004

All Federal longline logbook data for trips completed in the second quarter by Hawaii-based longline vessel operators have been received and processed and are summarized in this report. There may be data from trips that began late in the second quarter and continued into the third quarter that are not presented herein. Therefore, this report should still be considered preliminary.

The Hawaii-based longline fishery has operated under new rules since April 2, 2004. These new rules eliminate the southern area closure and reopen the swordfish-directed component of the fishery. The swordfish component of the fishery will be subject to restrictions on effort, hook and bait types, and a separate annual total for interactions with leatherback and loggerhead sea turtles in order to minimize adverse impacts on sea turtles. Other mitigation measures, such as dehooking devices, also will be required. Swordfish effort and catch totals are expected to increase from the current low levels.

Preliminary longline logbook summaries show that 106 vessels made 330 trips in the second quarter of 2004, which represented 2 less vessels and 40 less trips than in the same period of the previous year (Figs. 1-2). All trips targeted tuna (see FMEP website). The total number of hooks set in this quarter was 7.5 million, up from the record high 6.8 million hooks set in the second quarter of last year (Fig. 3). Most (70%) hooks were set outside the U.S. Exclusive Economic Zone (EEZ) along with the main Hawaiian Islands (MHI) EEZ (20%), the U.S. possessions (8%) and Northwest Hawaiian Islands (NWHI) EEZ (2%).

Bigeye tuna catch (22,990 fish) in the second quarter of 2004 was almost double that in the same period last year (Fig. 4); 72% of the bigeye tuna were caught outside the EEZ. Bigeye tuna CPUE on tuna-targeted trips was 3.1 fish per 1000 hooks (Fig. 5). Albacore catch (1,537 fish) and CPUE (0.2) were record lows for the second quarter (Figs. 6-7). Yellowfin tuna catch (3,151 fish) and CPUE (0.4) were less than half of the catch and CPUE last year (Figs. 8-9).

Only 1,290 swordfish were caught in the second quarter 2004 (Fig. 10). Tuna-targeted swordfish CPUE in the second quarter was only 0.2 (Fig. 11). Striped marlin catch (2,727 fish) and CPUE (0.4) were well below last year (Figs. 12-13). Blue marlin catch (1,375 fish) and CPUE (0.2) were substantially lower than the previous year (Figs. 14-15).

A total of 13,548 sharks were caught in the second quarter of 2004, of which only 5% (701) were kept. Blue shark comprised 78% of the total (10,552 fish) (Fig 16). Blue shark CPUE on tuna-targeted trips was 1.4 (Fig. 17).

Table 1.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; All areas)

Trip information			
Number of vessels		106	
Number of trips		330	
Number of sets		3,676	
Number of hooks set		7,502,174	
Number of light sticks used		0	
Species catch information			
Species class			# caught
Species	# kept	# caught	per 1000 hooks

Pelagic Management Unit Species (PMUS)			

Billfish			
Blue Marlin	1,362	1,375	0.18
Spearfish	3,601	3,635	0.48
Striped Marlin	2,712	2,727	0.36
Swordfish	1,111	1,290	0.17
Other	117	117	0.02
Total	8,903	9,144	1.22
Sharks			
Blue	241	10,552	1.41
Mako	147	269	0.04
Thresher	257	1,979	0.26
Other	56	748	0.10
Total	701	13,548	1.81
Tuna			
Albacore	1,532	1,537	0.20
Bigeye	22,792	22,990	3.06
Bluefin	1	1	0.00
Skipjack	3,534	3,708	0.49
Yellowfin	3,051	3,151	0.42
Other	6	6	0.00
Total	30,916	31,393	4.18
Other PMUS			
Mahimahi	4,871	4,947	0.66
Moonfish	1,209	1,213	0.16
Oilfish	5,147	5,176	0.69
Pomfret	23,221	23,344	3.11
Wahoo	6,294	6,313	0.84
Total	40,742	40,993	5.46
Miscellaneous			

Non-PMUS	647	683	0.09

Date and time of summary:

08/25/04 (08:42:45)

Table 2.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; US EEZs only)

Trip information			

Number of vessels	100		
Number of trips	211		
Number of sets	1,112		
Number of hooks set	2,233,747		
Number of light sticks used	0		

Species catch information			

Species class			# caught
Species	# kept	# caught	per 1000 hooks

Pelagic Management Unit Species (PMUS)			

Billfish			
Blue Marlin	274	278	0.12
Spearfish	1,308	1,326	0.59
Striped Marlin	1,061	1,068	0.48
Swordfish	354	387	0.17
Other	43	43	0.02
Total	3,040	3,102	1.39
Sharks			
Blue	41	3,193	1.43
Mako	83	134	0.06
Thresher	120	579	0.26
Other	48	299	0.13
Total	292	4,205	1.88
Tuna			
Albacore	475	477	0.21
Bigeye	6,297	6,378	2.86
Bluefin	0	0	0.00
Skipjack	624	635	0.28
Yellowfin	1,102	1,180	0.53
Other	5	5	0.00
Total	8,503	8,675	3.88
Other PMUS			
Mahimahi	2,510	2,572	1.15
Moonfish	531	535	0.24
Oilfish	1,616	1,622	0.73
Pomfret	4,288	4,315	1.93
Wahoo	1,382	1,391	0.62
Total	10,327	10,435	4.67
Miscellaneous			

Non-PMUS	421	437	0.20

Date and time of summary:

08/25/04 (08:42:45)

Table 3.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; Main Hawaiian islands)

Trip information			
Number of vessels		90	
Number of trips		166	
Number of sets		778	
Number of hooks set		1,525,951	
Number of light sticks used		0	
Species catch information			
Species class			# caught
Species	# kept	# caught	per 1000 hooks
Pelagic Management Unit Species (PMUS)			
Billfish			
Blue Marlin	142	146	0.10
Spearfish	1,036	1,054	0.69
Striped Marlin	717	724	0.47
Swordfish	246	267	0.17
Other	39	39	0.03
Total	2,180	2,230	1.46
Sharks			
Blue	26	2,053	1.35
Mako	59	96	0.06
Thresher	86	421	0.28
Other	7	133	0.09
Total	178	2,703	1.77
Tuna			
Albacore	151	152	0.10
Bigeye	3,242	3,312	2.17
Bluefin	0	0	0.00
Skipjack	433	444	0.29
Yellowfin	617	694	0.45
Other	0	0	0.00
Total	4,443	4,602	3.02
Other PMUS			
Mahimahi	2,114	2,163	1.42
Moonfish	316	320	0.21
Oilfish	1,377	1,381	0.91
Pomfret	3,092	3,109	2.04
Wahoo	855	863	0.57
Total	7,754	7,836	5.14
Miscellaneous			
Non-PMUS	377	388	0.25

Date and time of summary:

08/25/04 (08:42:45)

Table 4.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; NW Hawaiian islands)

Trip information			
Number of vessels		18	
Number of trips		20	
Number of sets		52	
Number of hooks set	117,405		
Number of light sticks used	0		
Species catch information			
Species class			# caught
Species	# kept	# caught	per 1000 hooks
Pelagic Management Unit Species (PMUS)			
Billfish			
Blue Marlin	28	28	0.24
Spearfish	92	92	0.78
Striped Marlin	127	127	1.08
Swordfish	21	21	0.18
Other	3	3	0.03
Total	271	271	2.31
Sharks			
Blue	0	268	2.28
Mako	14	19	0.16
Thresher	1	10	0.09
Other	5	20	0.17
Total	20	317	2.70
Tuna			
Albacore	18	18	0.15
Bigeye	99	99	0.84
Bluefin	0	0	0.00
Skipjack	15	15	0.13
Yellowfin	37	37	0.32
Other	0	0	0.00
Total	169	169	1.44
Other PMUS			
Mahimahi	260	273	2.33
Moonfish	87	87	0.74
Oilfish	65	65	0.55
Pomfret	92	92	0.78
Wahoo	76	76	0.65
Total	580	593	5.05
Miscellaneous			
Non-PMUS	39	39	0.33

Date and time of summary:

08/25/04 (08:42:45)

Table 5.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; MHI and NWHI)

Trip information			

Number of vessels		91	
Number of trips		176	
Number of sets		830	
Number of hooks set		1,643,356	
Number of light sticks used		0	

Species catch information			

Species class			# caught
Species	# kept	# caught	per 1000 hooks
-----	-----	-----	-----
Pelagic Management Unit Species (PMUS)			

Billfish			
Blue Marlin	170	174	0.11
Spearfish	1,128	1,146	0.70
Striped Marlin	844	851	0.52
Swordfish	267	288	0.18
Other	42	42	0.03
Total	2,451	2,501	1.52
Sharks			
Blue	26	2,321	1.41
Mako	73	115	0.07
Thresher	87	431	0.26
Other	12	153	0.09
Total	198	3,020	1.84
Tuna			
Albacore	169	170	0.10
Bigeye	3,341	3,411	2.08
Bluefin	0	0	0.00
Skipjack	448	459	0.28
Yellowfin	654	731	0.44
Other	0	0	0.00
Total	4,612	4,771	2.90
Other PMUS			
Mahimahi	2,374	2,436	1.48
Moonfish	403	407	0.25
Oilfish	1,442	1,446	0.88
Pomfret	3,184	3,201	1.95
Wahoo	931	939	0.57
Total	8,334	8,429	5.13
Miscellaneous			

Non-PMUS	416	427	0.26

Date and time of summary:

08/25/04 (08:42:45)

Table 6.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; Outside of U.S. EEZs)

Trip information			
Number of vessels		100	
Number of trips		277	
Number of sets		2,564	
Number of hooks set		5,268,427	
Number of light sticks used		0	
Species catch information			
Species class			# caught
Species	# kept	# caught	per 1000 hooks
Pelagic Management Unit Species (PMUS)			
Billfish			
Blue Marlin	1,088	1,097	0.21
Spearfish	2,293	2,309	0.44
Striped Marlin	1,651	1,659	0.31
Swordfish	757	903	0.17
Other	74	74	0.01
Total	5,863	6,042	1.15
Sharks			
Blue	200	7,359	1.40
Mako	64	135	0.03
Thresher	137	1,400	0.27
Other	8	449	0.09
Total	409	9,343	1.77
Tuna			
Albacore	1,057	1,060	0.20
Bigeye	16,495	16,612	3.15
Bluefin	1	1	0.00
Skipjack	2,910	3,073	0.58
Yellowfin	1,949	1,971	0.37
Other	1	1	0.00
Total	22,413	22,718	4.31
Other PMUS			
Mahimahi	2,361	2,375	0.45
Moonfish	678	678	0.13
Oilfish	3,531	3,554	0.67
Pomfret	18,933	19,029	3.61
Wahoo	4,912	4,922	0.93
Total	30,415	30,558	5.80
Miscellaneous			
Non-PMUS	226	246	0.05

Date and time of summary:

08/25/04 (08:42:45)

Table 7.--Western Pacific longline logbook summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; Area totals;; U.S. possessions)

Trip information			

Number of vessels	42		
Number of trips	52		
Number of sets	282		
Number of hooks set	590,391		
Number of light sticks used	0		

Species catch information			

Species class			# caught
Species	# kept	# caught	per 1000 hooks

Pelagic Management Unit Species (PMUS)			

Billfish			
Blue Marlin	104	104	0.18
Spearfish	180	180	0.30
Striped Marlin	217	217	0.37
Swordfish	87	99	0.17
Other	1	1	0.00
Total	589	601	1.02
Sharks			
Blue	15	872	1.48
Mako	10	19	0.03
Thresher	33	148	0.25
Other	36	146	0.25
Total	94	1,185	2.01
Tuna			
Albacore	306	307	0.52
Bigeye	2,956	2,967	5.03
Bluefin	0	0	0.00
Skipjack	176	176	0.30
Yellowfin	448	449	0.76
Other	5	5	0.01
Total	3,891	3,904	6.61
Other PMUS			
Mahimahi	136	136	0.23
Moonfish	128	128	0.22
Oilfish	174	176	0.30
Pomfret	1,104	1,114	1.89
Wahoo	451	452	0.77
Total	1,993	2,006	3.40
Miscellaneous			

Non-PMUS	5	10	0.02

Date and time of summary:

08/25/04 (08:42:45)

Table 8.--Western Pacific longline logbook Protected Species Interaction
summary for 4/2004 through 6/2004
(Vessels landing or based in Hawaii)
(Date of haul; All vessels;; All trips; All areas)

Reported Protected Species catch information

Species	Alive/Uninjured	Injured	Dead	Total
-----	-----	-----	-----	-----
Seals/Sea Lions				
Monk Seals	0	0	0	0
Other Seals	0	0	0	0
Sea Lions	0	0	0	0
Total Seals/Sea Lions	0	0	0	0
Whales/Dolphins				
Humpback Whales	0	0	0	0
False Killer Whales	0	0	0	0
Other Whales	1	0	0	1
Dolphins	0	0	0	0
Total Whales/Dolphins	1	0	0	1
Turtles				
Green Turtles	0	0	0	0
Hawksbill Turtles	0	0	0	0
Leatherback Turtles	0	0	0	0
Loggerhead Turtles	0	0	0	0
Ridley Turtles	0	0	1	1
Unidentified Turtles	0	0	0	0
Other Turtles	0	0	0	0
Total Turtles	0	0	1	1
Birds				
Albatross	0	0	0	0
Booby	0	0	0	0
Other Birds	0	0	1	1
Total Birds	0	0	1	1
Other Species	0	0	0	0

Date and time of summary:

08/25/04 (08:43:24)